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P-143



55 SEA CLIFF AVENUE

GLEN COVE, NEW YORK

TEL. GLEN COVE 4-6900

MANUFACTURERS OF HIGH PRECISION OPTICS

October 12, 1953

Mr. G. T. McNeil
Photogrammetry, Inc.
901 Pershing Drive
Silver Spring, Maryland

Dear Mr. McNeil:

Referring to our recent telephone conversation, you will find enclosed a report of tests made by the City Testing and Research Laboratories, Inc., which you may keep for your files, on our 40" Reflector Lens submitted for thermal shock test as per MIL-STD-150. The lens was subjected to a temperature cycle of from - 45°f. to 135°f.

Since the 40" Reflector Lens has exactly the same mechanical specification as the 80" Lens we hope that this information will be sufficient.

If you need any further information we shall be pleased to hear from you.

Very truly yours,

ZOOMAR, INC

W. Steuer

WS/s
Encl.

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25X1

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May 15, 1953

CONCLUSION OF THERMAL SHOCK TEST

A thermal shock test on the 40 Reflector Lens and cover, Serial No. 5226, was carried out by City Testing and Research Laboratories, Inc. under Reference No. S-20520 on May 8, 1953. The Lens was returned to this facility and inspected for any changes which might have taken place under the test. No change in the mechanical condition of the lens assembly was noticed.

An operational test was conducted to determine if any impairment of photographic image quality had resulted. The photos showed no deviation from the requirements of the basic specification.

Final Conclusion

As a result of the above it is considered that the thermal shock test successfully met the requirements of Specification MIL-STD-190.

ZOOMAR, INC.

W. Stevens
W. Stevens, Vice President

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City Testing & Research Laboratories, Inc.

250 WEST 54th STREET

Circle 5-4393-4

NEW YORK 19, N. Y.

REPORT OF TESTS May 8, 1953

TO:

Zoomar Corporation
55 Sea Cliff Avenue
Glen Cove, L.I., N.Y.

Reference No. 8-20520

Material 40" Reflector Lens and Cover

Marked Serial No. 5226

Your Order P.O. #53/128

Submitted for Thermal Shock Test per MIL-STD-150

The cap was removed from the lens and both parts were then subjected to the following temperature cycle: -

16 hrs. @ minus 45°F

6 hrs. @ 135°F

The above procedure was repeated for a total of 3 cycles.

REMARKS

Upon completion of the above test, the unit was returned to Mr. J. Steuer of the Zoomar Corporation for inspection and testing.

Respectfully submitted,

CITY TESTING & RESEARCH
LABORATORIES, INC.

Stephen A. Montanaro
Stephen A. Montanaro
Managing Director

Subscribed & Sworn to
before me this 8th
day of May, 1953.

Harold Chorney

HAROLD CHORNEY
Notary Public State of New York
Qualified in Kings Co No 24-0631225
Cert. filed with N. Y. Co. Clerks
Commission Expires March 30, 1955

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